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Virginia Nather, Ward Sangren

January 1959 Communications of the ACM, Volume 2 Issue 1

Publisher: ACM Press

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2 Highly vectorized algorithm for transient simulation of space reactor systems

B. Nassershafif, J. S. Peery, M. D. DeHart

November 1988 Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88
Publisher: IEEE Computer Society Press

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Current interest in the application of nuclear reactor driven power systems to space missions has generated a need for an accurate systems model which is capable of handling the nonlinear transient simulation of such systems [1],[2]. A project to develop a code specifically designed to model and analyze space reactor systems is currently ongoing at Texas A&M. This code, named CENTAR (Code for Extended Nonlinear Transient Analysis of Extraterrestrial Reactors [3],[4]), is written especia ...



3 The role of computer systems in the nuclear power debate

Kevin W. Bowyer

April 1980 ACM SIGCAS Computers and Society, Volume 10 Issue 3-4

Publisher: ACM Press

 Full text available: [pdf\(489.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)


One of the primary reasons for the current "decline" of nuclear power is that reactors have not operated reliably. This unreliability has raised questions of both safety and economics. Computer systems have been a part of this failure of technology. If nuclear power is to be revived as an energy option for our country, both the quantity and quality of computer applications must increase.



4 GASP IV simulation of nuclear waste

 Jeffery Lee Turek, Elden L. Deporter, Harold A. Kurstedt, Charles E. Rasbach, Steven K. Funk
January 1981 Proceedings of the 13th conference on Winter simulation - Volume 1



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1 Abstracts—nuclear reactor codes



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2 Highly vectorized algorithm for transient simulation of space reactor systems



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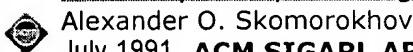
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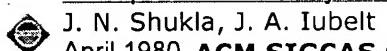
Jeffery Lee Turek, Elden L. Deporter, Harold A. Kurstedt, Charles E. Rasbach, Steven K. Funk
January 1981 **Proceedings of the 13th conference on Winter simulation - Volume 1**

WSC '81**Publisher:** IEEE PressFull text available: [pdf\(521.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The current governmental research and development program for the disposition of high-level nuclear wastes from both defense and commercial sources is modelled using a discrete GASP IV based simulation. The simulation utilizes, as input, actual and current data from various DOE management information systems. A sampling of disposition data contained within these systems are milestones, storage facility capacities, and predecessor and successor relations. Decision variables include facility ...

5 Nuclear power plant diagnostics in APLJuly 1991 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL '91 APL '91**, Volume 21 Issue 4**Publisher:** ACM PressFull text available: [pdf\(903.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We are interested in the development of Nuclear Power Plant (NPP) diagnostic systems and other complex systems of data processing. There are some questions on the subject: How to build these systems easily? How to build them fast? How to build them at a low price? And how to build them to be user friendly? Today, from our point of view, in the area of Nuclear Power Plant diagnostics, there is only one answer to these questions: We must use APL.

6 Computer based systems in boiling water reactorsApril 1980 **ACM SIGCAS Computers and Society**, Volume 10 Issue 3-4**Publisher:** ACM PressFull text available: [pdf\(474.71 KB\)](#) Additional Information: [full citation](#), [abstract](#)

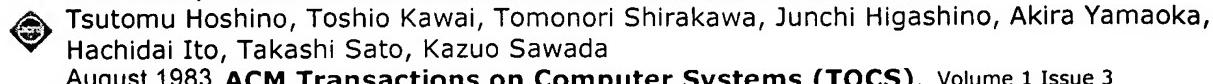
This paper describes the application of computers to the General Electric Company's Boiling Water Reactor (BWR) type nuclear power plants. In the GE BWR plants, computers are used for Real Time Process Monitoring, Nuclear Steam Supply System Performance and Core Limit Evaluation, Balance of Plant Performance Evaluation, Historical Recording, and Control Rod Pattern Enforcement. These functions are performed by different systems and subsystems each consisting of one or more computers. This paper ...

7 A combined simulation model of the nuclear fuel cycle

E. L. DePorter, Harold A. Kurstedt, Joel A. Nachlas

December 1977 **Proceedings of the 9th conference on Winter simulation - Volume 1 WSC '77****Publisher:** Winter Simulation ConferenceFull text available: [pdf\(327.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Strategies for dealing effectively with the complex nuclear fuel cycle are needed to assure the availability of the required nuclear energy portion of U.S. energy supplies. The vertical integration approach to assuring uranium fuel supplies is achieved through control or ownership of fuel cycle stages. Global system analysis is facilitated by identifying crucial control points in the fuel cycle. A GASP IV simulation model of the production and inventories of the sequentially prod ...

8 PACS: a parallel microprocessor array for scientific calculations

Tsutomu Hoshino, Toshio Kawai, Tomonori Shirakawa, Junchi Higashino, Akira Yamaoka, Hachidai Ito, Takashi Sato, Kazuo Sawada

August 1983 **ACM Transactions on Computer Systems (TOCS)**, Volume 1 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.95 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: MIMD, array processors, distributed systems, highly parallel processors, multimicroprocessors, multiprocessing, multiprocessors, nearest neighbor communication, parallel algorithms, parallel language, parallel processors, performance measurement, processor architecture, scientific calculation, supercomputer, synchronization

9 NUFACTS: A tool for the analysis of nuclear development policies 

Mark B. Triplett, Theodore L. Willke, John D. Waddell

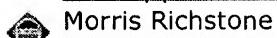
January 1977 **Proceedings of the 9th conference on Winter simulation - Volume 2
WSC '77**

Publisher: Winter Simulation Conference

Full text available:  pdf(582.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

NUFACTS, the Nuclear Fuel Cycle Activity Simulator, is a combined continuous/discrete simulation of the nuclear power economy. This model has been useful in the evaluation of nuclear development policies as it projects the economic and resource impacts attributable to a given policy. A recent application of NUFANTS has involved the economic evaluation of plutonium recycle options in light-water reactors. Based upon the GASP IV simulation language, NUFANTS provides a highly flexib ...

10 The applied mathematics laboratory of the David W. Taylor Model Basin 



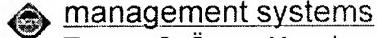
Morris Richstone

September 1961 **Communications of the ACM**, Volume 4 Issue 9

Publisher: ACM Press

Full text available:  pdf(1.47 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

11 Model reliability and software quality assurance in simulation of nuclear fuel waste 



management systems

Tuncer I. Ören, Maurlce S. Elzas, Grant Sheng

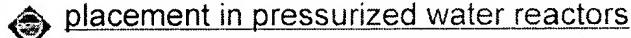
October 1985 **ACM SIGSIM Simulation Digest**, Volume 16 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

As is the case with all scientific simulation studies, computerized simulation of nuclear fuel waste management systems can introduce and hide various types of errors. Frameworks to clarify issues of model reliability and software quality assurance are offered. Potential problems with reference to the main areas of concern for reliability and quality are discussed; e.g. experimental issues, decomposition, scope, fidelity, verification, requirements, testing, correctness, robustness are treated w ...

12 Genetic algorithms: Application of genetic algorithm to optimize burnable poison 



placement in pressurized water reactors

Serkan Yilmaz, Kostadin Ivanov, Samuel Levine

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Publisher: ACM Press

Full text available:  pdf(1.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An efficient and a practical genetic algorithm tool was developed and applied successfully to Burnable Poisons (BPs) placement optimization problem in the reference Three Mile

Island-1 (TMI-1) core. Core BP optimization problem means developing a BP loading map for a given core loading configuration that minimizes the total Gadolinium (Gd) amount in the core without violating any design constraints. The number of UO₂/Gd₂O₃ pins and Gd₂O₃ con ...

Keywords: burnable poison, decision variables, gadolinium, genetic algorithm, nuclear, optimization, reactor

13 Homeland security/emergency response: simulation for response: Training first responders to nuclear facilities using 3-D visualization technology

Robert L. Sanders, Joseph E. Lake

December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**

Publisher: Winter Simulation Conference

Full text available:  pdf(509.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The development of an advanced visualization and simulation tool for first responder exercises and education is presented. This tool exploits cutting edge computer graphics, physics-based effects modeling, virtual reality, and gaming technologies to establish a system that can eventually be used for the administrative planning and training of first responders in homeland security, homeland defense, and combating terrorism communities.

14 University Consortium for Industrial Numerical Analysis (UCINA)

 S. McKee

December 1981 **ACM SIGNUM Newsletter**, Volume 16 Issue 4

Publisher: ACM Press

Full text available:  pdf(420.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The University Consortium for Industrial Numerical Analysis (UCINA) was formed on the 1st October 1979 with Dr. Sean McKee as the Project Coordinator. UCINA represents a collaborative effort by numerical analysts and interested applied mathematicians of the Universities of Bath, Brunel, Oxford, Reading and Imperial College, with strong support from the Division of Numerical Analysis and Computing Sciences at the National Physical Laboratory, to help with the solution of practical problems in ind ...

15 Abstracts— additional nuclear reactor codes

 Virgina Nather, Ward Sangren

January 1960 **Communications of the ACM**, Volume 3 Issue 1

Publisher: ACM Press

Full text available:  pdf(940.91 KB) Additional Information: [full citation](#)

16 Vector and parallel processing of the nuclear reactor transient analysis code

RELAPS

M. Ishiguro, M. Makino, N. Shinozawa

November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing Supercomputing '88**

Publisher: IEEE Computer Society Press

Full text available:  pdf(720.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An experiment of vector processing and multi-tasking of nuclear reactor transient analysis code RELAP5 has been made at Japan Atomic Energy Research Institute. Vector processing and multi-tasking of the RELAP5 were achieved by using the independency of the spatial meshes. The vectorization ratio is 83% The performance ratio in the vector mode to that

in the scalar mode is about 3 on the FACOM VP-100. For multi-tasking, the spatial meshes are halved and each group of meshes is processed on d ...

- 17 Manufacturing applications: production management IV: Database-intensive process simulation at the Y-12 national security complex

Reid Kress, Karen Bills, Jack Dixon, Richard Rinehart

December 2006 **Proceedings of the 37th conference on Winter simulation WSC '06**

Publisher: Winter Simulation Conference

Full text available:  pdf(588.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The NNSA's Y-12 National Security Complex is a manufacturing facility operated by BWXT Y-12. Y-12's missions include ensuring the US' nuclear weapons deterrent, storing nuclear materials, and fueling US naval reactors. As a consequence of these missions, Y-12 makes dozens of products, having hundreds of parts, each with many different process steps associated with manufacturing components, building sub-assemblies, or assembling final products. Y-12 also disassembles weapon components to support ...

- 18 An integrated energy simulation model of the Federal Republic of Germany as a decision aid for analyzing and planning the energy system

Hans-Paul Schwefel, Kurt Schmitz

December 1977 **Proceedings of the 9th conference on Winter simulation - Volume 1 WSC '77**

Publisher: Winter Simulation Conference

Full text available:  pdf(638.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As a decision aid for planning the national energy system the Programme Group of Systems Analysis and Technological Development (STE) of the Nuclear Research Centre (KFA) at Jülich (Federal Republic of Germany) has developed a simulation model which integrates macroeconomic, energy demand and supply as well as environmental modules. The structures of these four parts of the model, which are interlinked with each other, are explained in detail and the capabilities of that sys ...

- 19 Software safety: why, what, and how

 Nancy G. Leveson

June 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 2

Publisher: ACM Press

Full text available:  pdf(4.18 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new software research area, emphasis is placed on delineating the outstanding issues and research topics.

- 20 A systematic approach to the development and validation of critical software for nuclear power plants

C. V. Ramamoorthy, F. B. Bastani, J. M. Favaro, Y. R. Mok, C. W. Nam, K. Suzuki

September 1979 **Proceedings of the 4th international conference on Software engineering ICSE '79**

Publisher: IEEE Press

Full text available:  pdf(911.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The power industry is becoming increasingly interested in the use of digital computers within nuclear plant protection systems in order to satisfy increased safety requirements, provide greater operating flexibility, minimize spurious forced outages, and (in conjunction

with multiplexing) to meet separation requirements. However, the development and licensing of digital safety systems has been hindered to date by the difficulty of validating the software. A methodology is propose ...

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Ralph Vartabedian. *Los Angeles Times*. Los Angeles, Calif.: Apr 7, 2005. p. A.14

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2. **CATTENOM-1 SUSPECTED TO SUFFER FROM VIBRATION-INDUCED FRETTING**

Ann MacLachlan, Paris. *Nucleonics Week*. New York: Feb 21, 2002. Vol. 43, Iss. 8; p. 4

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Sara Gay Dammann. *Special to the Tribune.. Chicago Tribune*. Chicago, Ill.: Dec 23, 1997. p. 16

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New York Times (Late Edition (East Coast)). New York, N.Y.: Jun 9, 1995. p. B.3

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New York Times (Late Edition (East Coast)). New York, N.Y.: Jun 9, 1995. p. B3

[Abstract](#)

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Santa Ana, Calif.: Aug 3, 1994. p.

[Abstract](#)

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JONATHAN D. POLLACK. *Los Angeles Times (pre-1997 Fulltext)*. Los Angeles, Calif.: Jul 14, 1994. p. 7

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DOCUMENT-IDENTIFIER: US 20060129362 A1

TITLE: Method for determining threshold value of a nuclear reactor operating parameter, corresponding system, computer programme and support

PUBLICATION-DATE: June 15, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Mahe</u> ; Patrice	PIOLENC		FR
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PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030012326 A1

TITLE: Method of inspecting an operation of sealed closure by welding the end of a filling channel traversing the upper plug of a nuclear fuel rod

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Mahe</u> , Philippe	Montmiral		FR

US-CL-CURRENT: 376/248

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn De
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3. Document ID: US 6668034 B2

L1: Entry 3 of 3

File: USPT

Dec 23, 2003

US-PAT-NO: 6668034

DOCUMENT-IDENTIFIER: US 6668034 B2

TITLE: Method of inspecting an operation of sealed closure by welding the end of a filling channel traversing the upper plug of a nuclear fuel rod

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Mahe; Philippe</u>	Montmiral			FR

US-CL-CURRENT: 376/248; 219/121.64, 219/121.85, 376/258, 376/261, 376/451, 382/141,
382/152, 700/109

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REACTORS	65657
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CLADDINGS	3297
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1. Document ID: US 20060129362 A1

L5: Entry 1 of 7

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060129362

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060129362 A1

TITLE: Method for determining threshold value of a nuclear reactor operating parameter, corresponding system, computer programme and support

PUBLICATION-DATE: June 15, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mahe; Patrice	PIOLENC		FR
Royer; Christian	Issy Les Moulineaux		FR

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Drawn De
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2. Document ID: US 5073336 A

L5: Entry 2 of 7

File: USPT

Dec 17, 1991

US-PAT-NO: 5073336

DOCUMENT-IDENTIFIER: US 5073336 A

TITLE: Corrosion resistant zirconium alloys containing copper, nickel and iron

DATE-ISSUED: December 17, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taylor; Dale F.	Schenectady	NY		

US-CL-CURRENT: 376/457; 376/414, 376/416, 376/417

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Drawn De
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3. Document ID: US 5026516 A

L5: Entry 3 of 7

File: USPT

Jun 25, 1991

US-PAT-NO: 5026516

DOCUMENT-IDENTIFIER: US 5026516 A

TITLE: Corrosion resistant cladding for nuclear fuel rods

DATE-ISSUED: June 25, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taylor; Dale F.	Schenectady	NY		

US-CL-CURRENT: 376/416; 376/414, 376/417, 376/457, 420/422, 976/DIG.53[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Edit](#) | [Claims](#) | [KMC](#) | [Drawn](#) | [Des](#) 4. Document ID: US 5024809 A

L5: Entry 4 of 7

File: USPT

Jun 18, 1991

US-PAT-NO: 5024809

DOCUMENT-IDENTIFIER: US 5024809 A

TITLE: Corrosion resistant composite claddings for nuclear fuel rods

DATE-ISSUED: June 18, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taylor; Dale F.	Schenectady	NY		

US-CL-CURRENT: 376/417; 376/362, 376/434, 376/457, 420/422, 976/DIG.53[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Edit](#) | [Claims](#) | [KMC](#) | [Drawn](#) | [Des](#) 5. Document ID: US 4990305 A

L5: Entry 5 of 7

File: USPT

Feb 5, 1991

US-PAT-NO: 4990305

DOCUMENT-IDENTIFIER: US 4990305 A

TITLE: Single peak radial texture zircaloy tubing

DATE-ISSUED: February 5, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
------	------	-------	----------	---------

Foster; John P.	Monroeville	PA
Cook; Charles S.	Murrysville	PA
Sabol; George P.	Export	PA

US-CL-CURRENT: 376/457; 72/370.22, 72/700

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Advanced Search](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

6. Document ID: US 4986957 A

L5: Entry 6 of 7

File: USPT

Jan 22, 1991

US-PAT-NO: 4986957

DOCUMENT-IDENTIFIER: US 4986957 A

TITLE: Corrosion resistant zirconium alloys containing copper, nickel and iron

DATE-ISSUED: January 22, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taylor; Dale F.	Schenectady	NY		

US-CL-CURRENT: 376/417; 376/416, 376/421, 376/457, 420/422, 420/423

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Advanced Search](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

7. Document ID: US 4643866 A

L5: Entry 7 of 7

File: USPT

Feb 17, 1987

US-PAT-NO: 4643866

DOCUMENT-IDENTIFIER: US 4643866 A

TITLE: Nuclear fuel pellet-cladding interaction test device and method modeling in-core reactor thermal conditions

DATE-ISSUED: February 17, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thornton; Thomas A.	Lynchburg	VA		
Pettus; William G.	Monroe	VA		

US-CL-CURRENT: 376/245; 376/251, 376/253, 976/DIG.208

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